

Program Requirements Document Companywide	13.1 HANDLING, STORAGE, AND SHIPPING	Identifier: PRD-5084 Revision: 3 Page: 1 of 4
Document Control Center: (208) 526-1202	Document Owner: Director, Quality Assurance	Effective Date: 03/06/02

Manual: 13A—Quality and Requirements
Management Program Documents

Change Number: 87876

1. PURPOSE

This Program Requirements Document (PRD) identifies requirements and responsibilities for handling, storing, cleaning, packaging, shipping, and preserving *items* (see def.) to prevent damage or loss and minimize deterioration. See Appendix A for requirements basis.

2. APPLICABILITY

This PRD applies to company organizations that handle, store, clean, package, ship, and preserve items.

3. RESPONSIBILITIES

3.1 Quality Assurance Organization

The quality assurance organization shall monitor quality assurance program implementation for handling, storage, and shipping activities within the company.

3.2 Organizations

Organizations that generate *procedures* (see def.) for the handling, storage, and shipping of items shall comply with the requirements contained in this PRD.

Organizations involved in handling, storage, and shipping activities shall comply with applicable handling, storage, and shipping procedures.

4. REQUIREMENTS

4.1 Companywide Applications

The requirements identified in this subsection (4.1) apply to the entire company unless exempted by INT-17, QA PRD Introduction, Subsection 2.

4.1.1 Basic

- 4.1.1.1 The handling, storage, cleaning, packaging, shipping, and preservation of items shall be controlled to prevent damage or loss and to minimize deterioration. These activities shall be conducted in accordance with established work and *inspection* (see def.) instructions, drawings, specifications, shipping instructions, or other pertinent documents or procedures specified for use in

Program Requirements Document Companywide	13.1 HANDLING, STORAGE, AND SHIPPING	Identifier: PRD-5084 Revision: 3 Page: 2 of 4
---	---	---

conducting the activity. [NQA-1-1997, Requirement 13, 100 1s and 100 2s; DOE/RW-0333P 13.2.1.A]

- 4.1.1.2 When required for critical, sensitive, perishable, or high-value items, specific procedures for handling, storage, packaging, shipping, and preservation shall be used. [NQA-1-1997, Requirement 13, 300; DOE/RW-0333P 13.2.1.B]

4.1.2 Special Equipment, Tools, and Environment

- 4.1.2.1 When required, special equipment (such as containers, shock absorbers, and accelerometers) and special protective environments (such as inert gas atmosphere, specific moisture content levels, and temperature levels) shall be specified and provided and their existence verified. [NQA-1-1997, Requirement 13, 200; DOE/RW-0333P 13.2.2.A and 13.2.2.B]
- 4.1.2.2 Special handling tools and equipment shall be utilized and controlled where necessary to ensure safe and adequate handling. [NQA-1-1997, Requirement 13, 400 1s; DOE/RW-0333P, 13.2.2.C]
- 4.1.2.3 Special handling tools and equipment shall be inspected and *tested* (see def.) periodically or prior to use as necessary to ensure *performance* (see def.). [NQA-1-1997, Requirement 13, 400 2s]
- 4.1.2.4 Operators of special handling and lifting equipment shall be experienced or trained to use the equipment. [NQA-1-1997, Requirement 13, 500; DOE/RW-0333P 13.2.2.E]

4.1.3 Marking and Labeling

- 4.1.3.1 Measures shall be established for marking and labeling for the packaging, shipping, handling, and storage of items as necessary to adequately identify, maintain, and preserve the item. [DOE/RW-0333P 13.2.3.A; NQA-1-1997, Requirement 13, 600]
- 4.1.3.2 Markings and labels shall indicate the presence of special environments or the need for special controls if necessary. [NQA-1-1997, Requirement 13, 600; DOE/RW-0333P 13.2.3.B]

4.1.4 Records

- 4.1.4.1 All records designated in implementing documents as *quality assurance records* (see def.) shall be controlled in accordance with PRD-5088, 17.1 Quality Assurance Records. [Summary of records requirements from NQA-1-1997, DOE/RW-0333P, and Company Imposed Requirements]

Program Requirements Document Companywide	13.1 HANDLING, STORAGE, AND SHIPPING	Identifier: PRD-5084 Revision: 3 Page: 3 of 4
---	---	---

4.2 Specific Requirements for DOE/RW-0333P QARD Revision 10 Applications

This subsection (4.2) contains additional requirements from the QARD (DOE/RW-0333P, Revision 10) which are specific to the Spent Nuclear Fuel (SNF) Program.

4.2.1 Special Tools and Equipment

- 4.2.1.1 Special handling tools and equipment shall be inspected and tested at specified time intervals and in accordance with implementing documents to *verify* (see def.) that the tools and equipment are adequately maintained. [DOE/RW-0333P 13.2.2.D]

4.2.2 Storage casks, Transportation Casks, Multi-Purpose Canisters (MPCs), and Ancillary Equipment for SNF Applications

- 4.2.2.1 Organizations that design or fabricate storage casks, transportation casks, MPCs, or ancillary equipment shall develop Quality Assurance (QA) programs that are accepted by the Nuclear Regulatory Commission and the procuring organization. The QA programs shall meet the following requirements [DOE/RW-0333P, Appendix B, B.2.1]:

- A. The QA program shall meet the requirements of 10 CFR 71, Subpart H or 10 CFR 72, Subpart G, as applicable. [DOE/RW-0333P, Appendix B, B.2.2.A]
- B. The requirements of section 4.2.2 are the only QARD requirements that apply to organizations designing or fabricating storage casks, transportation casks, MPCs or ancillary equipment under 10 CFR 71, Subpart H or 10 CFR 72, Subpart G, QA Programs. [DOE/RW-0333P, Appendix B, B.2.2.2.B]

5. DEFINITIONS

Refer to LST-199, Definitions, in the QA PRD Manual for the definitions of the following terms:

inspection

items

performance

procedure

Program Requirements Document Companywide	13.1 HANDLING, STORAGE, AND SHIPPING	Identifier: PRD-5084 Revision: 3 Page: 4 of 4
---	---	---

quality assurance records

test(ed)

verify

6. REFERENCES

10 CFR 71, Subpart H, Quality Assurance Program

10 CFR 72 Subpart G, Quality Assurance Program

ASME NQA-1-1997, Quality Assurance Requirements for Nuclear Facility Applications

DOE/RW-0333P, Office of Civilian Radioactive Waste Management, Quality Assurance Requirements and Description, Revision 10

7. APPENDICES

Appendix A, 13.1 Basis

Program Requirements Document Companywide	13.1 HANDLING, STORAGE, AND SHIPPING	Identifier: PRD-5084 Revision: 3 Page: A1 of A1
---	---	---

APPENDIX A

13.1 Basis

Source	Citation	Requirement	Comments
ASME NQA-1-1997, Quality Assurance Requirements for Nuclear Facility Applications, Requirement 13	100 1s and 100 2s	4.1.1.1	Consensus Requirement (CR)
NQA-1-1997, Requirement 13	200	4.1.2.1	CR
NQA-1-1997, Requirement 13	300	4.1.1.2	CR
NQA-1-1997, Requirement 13	400 1s	4.1.2.2	CR
NQA-1-1997, Requirement 13	400 2s	4.1.2.3	CR
NQA-1-1997, Requirement 13	500	4.1.2.4	CR
NQA-1-1997, Requirement 13	600	4.1.3.1	CR
NQA-1-1997, Requirement 13	600	4.1.3.2	CR
DOE/RW-0333P, Office of Civilian Radioactive Waste Management Program, Quality Assurance Requirements and Description, Revision 10	13.2.1.A	4.1.1.1	CR
DOE/RW-0333P	13.2.1.B	4.1.1.2	CR
DOE/RW-0333P	13.2.2.A and 13.2.2.B	4.1.2.1	CR
DOE/RW-0333P	13.2.2.C	4.1.2.2	CR
DOE/RW-0333P	13.2.2.D	4.2.1.1	Specific Requirement (SR)
DOE/RW-0333P	13.2.2.E	4.1.2.4	CR
DOE/RW-0333P	13.2.3.A	4.1.3.1	CR
DOE/RW-0333P	13.2.3.B	4.1.3.2	CR
DOE/RW-0333P, Appendix B	B.2.1	4.2.2.1	SR
DOE/RW-0333P, Appendix B	B.2.2.A	4.2.2.1A	SR
DOE/RW-0333P, Appendix B	B.2.2.B	4.2.2.1B	SR
PRD-5088, 17.1 Quality Assurance Records	All	4.1.4.1	Summary of records requirements from NQA-1-1997, DOE/RW-0333P, and Company Imposed Requirements